

BONNEY
DROP FORGED WRENCHES

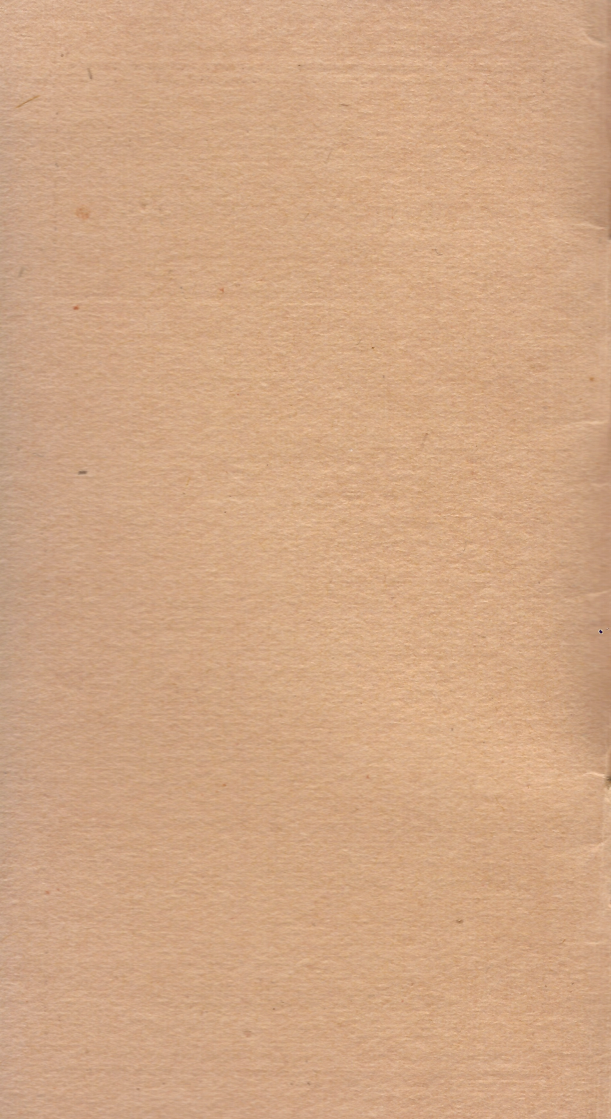
TRADE
BONNEY
MARK

CATALOG NUMBER 15

BONNEY VISE AND TOOL WORKS
Inc.

ALLENTOWN, PA., U. S. A.

PHILADELPHIA, PA., U. S. A.



BONNEY VISE AND TOOL WORKS

Inc.

ALLENTOWN, PA., U. S. A.

PHILADELPHIA, PA., U. S. A.

Manufacturers of
DROP FORGINGS
VICES AND WRENCHES
of all kinds

TRADE
BONNEY
MARK

CATALOG NUMBER 15

Showing
DROP FORGED WRENCHES

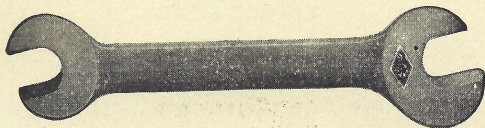
ESTABLISHED 1876

Cable address **Bonnevise**
Phila.

KINDLY DESTROY ALL FORMER
LISTS ON DROP FORGED
WRENCHES.

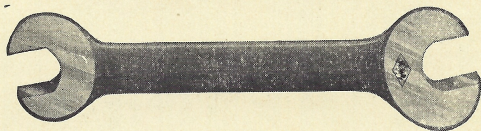
TO INSURE PROMPT DELIVERY
ORDER WRENCHES BY
CATALOG NUMBERS.

UNFINISHED WRENCH.



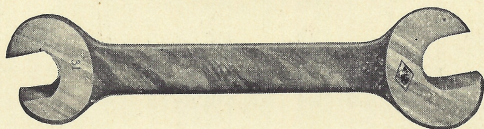
This is a Drop Forged Wrench with or without milled openings unhardened.

SEMI-FINISHED WRENCH.



This is a Drop Forged Wrench having milled openings and hardened, privilege being allowed to brighten the heads.

FINISHED WRENCH.



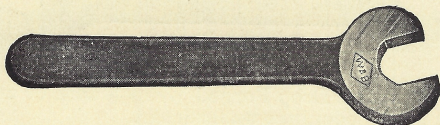
This is a Drop Forged Wrench with milled openings, full polish, hardened and brightened.

All Drop Forged Wrenches will be furnished with milled openings unless otherwise specified.

ENGINEERS' WRENCHES

SINGLE HEAD

15° ANGLE



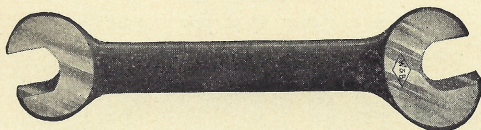
No.	Size Bolts U. S. Standard Nuts	Opening Inches	Extreme Length Inches	Price Unfinished Each	Price Semi-Fin. Each	Price Finished Each
00	$\frac{1}{8}$	$\frac{5}{16}$	$2\frac{1}{2}$	\$0 08	\$0 12	\$0 16
0	$\frac{3}{8}$	$\frac{1}{2}$	$2\frac{7}{8}$	09	13	18
1	$\frac{1}{4}$	$\frac{1}{2}$	$3\frac{3}{4}$	10	15	20
2	$\frac{5}{8}$	$\frac{1}{2}$	$4\frac{3}{4}$	12	18	24
3	$\frac{3}{8}$	$\frac{1}{2}$	$5\frac{5}{8}$	14	21	28
4	$\frac{7}{8}$	$\frac{1}{2}$	$6\frac{1}{2}$	17	25	34
5	$\frac{1}{2}$	$\frac{7}{8}$	$7\frac{1}{2}$	20	30	40
6	$\frac{1}{8}$	$\frac{3}{4}$	$8\frac{3}{8}$	26	39	52
7	$\frac{5}{8}$	$1\frac{1}{8}$	$9\frac{1}{4}$	32	48	64
8	$\frac{3}{4}$	$1\frac{1}{4}$	$11\frac{1}{8}$	42	63	84
9	$\frac{7}{8}$	$1\frac{7}{8}$	13	58	87	1 16
10	1	$1\frac{5}{8}$	$14\frac{7}{8}$	75	1 13	1 50
11	$1\frac{1}{8}$	$1\frac{1}{2}$	$16\frac{5}{8}$	1 00	1 50	2 00
12	$1\frac{1}{4}$	2	$18\frac{1}{2}$	1 25	1 88	2 50
13	$1\frac{3}{8}$	$2\frac{3}{8}$	$20\frac{1}{4}$	1 62	2 43	3 24
14	$1\frac{1}{2}$	$2\frac{3}{8}$	$22\frac{1}{4}$	2 00	3 00	4 00
15	$1\frac{5}{8}$	$2\frac{9}{8}$	24	2 50	3 75	5 00
16	$1\frac{3}{4}$	$2\frac{3}{4}$	$25\frac{3}{8}$	3 00	4 50	6 00
16½	$1\frac{7}{8}$	$2\frac{1}{2}$	$25\frac{3}{8}$	3 70	5 55	7 40
17	2	$3\frac{1}{8}$	$29\frac{1}{2}$	4 40	6 60	8 80
18	$2\frac{1}{4}$	$3\frac{1}{2}$	33	6 00	9 00	12 00
19	$2\frac{1}{2}$	$3\frac{7}{8}$	37	7 60	11 40	15 20
19½	$2\frac{3}{4}$	$4\frac{1}{4}$	37	10 00	15 00	20 00
20	3	$4\frac{5}{8}$	44	13 00	19 50	26 00
20A	$3\frac{1}{4}$	5	44	16 00	24 00	32 00
20B	$3\frac{1}{2}$	$5\frac{3}{8}$	51	22 00	33 00	44 00
20C	$3\frac{3}{4}$	$5\frac{3}{4}$	51	25 00	36 00	47 00
20D	4	$6\frac{1}{8}$	53	28 00	39 00	50 00
20E	$4\frac{1}{2}$	$6\frac{3}{8}$	51	40 00	60 00	80 00
20F	5	$7\frac{5}{8}$	53	45 00	65 00	85 00

See page 3 for finish of Wrenches

ENGINEERS' WRENCHES

DOUBLE HEAD

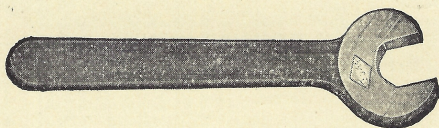
15° ANGLE



No.	Size Bolts, U. S. Standard Nuts.	Openings, Inches.	Extreme Length, Inches.	Price, Unfinished, Each.	Price, Semi- finished, Each.	Price, Finished, Each.
21	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{5}{16}$ & $\frac{13}{32}$	$3\frac{1}{4}$	\$0 12	\$0 18	\$0 24
22	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{1}{2}$	4	13	20	26
23	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	4	14	21	28
24	$\frac{1}{8}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{3}{4}$	$4\frac{7}{8}$	16	24	32
25	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{7}{8}$	18	27	36
26	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{11}{16}$	$5\frac{1}{8}$	20	30	40
27	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{11}{16}$	$5\frac{1}{8}$	22	33	44
28	$\frac{1}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{25}{32}$	$6\frac{7}{8}$	24	36	48
29	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{11}{16}$ & $\frac{25}{32}$	$6\frac{7}{8}$	26	39	52
30	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{7}{8}$	$7\frac{3}{4}$	28	42	56
31	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{4}$ & $\frac{7}{8}$	$7\frac{3}{4}$	30	45	60
32	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{31}{32}$	$8\frac{3}{4}$	32	48	64
33	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{8}$ & $\frac{31}{32}$	$8\frac{3}{4}$	36	54	72
34	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $1\frac{1}{16}$	$9\frac{3}{4}$	40	60	80
35	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{31}{32}$ & $1\frac{1}{16}$	$9\frac{3}{4}$	44	66	88
36	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{31}{32}$ & $1\frac{1}{4}$	$11\frac{5}{8}$	51	77	1 02
37	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{16}$ & $1\frac{1}{4}$	$11\frac{5}{8}$	58	87	1 16
38	$\frac{5}{8}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{7}{16}$	$13\frac{1}{2}$	65	98	1 30
39	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{4}$ & $1\frac{7}{16}$	$13\frac{1}{2}$	76	1 14	1 52
40	$\frac{3}{4}$ & 1	$\frac{1}{4}$ & $1\frac{5}{8}$	$15\frac{1}{2}$	88	1 32	1 76
41	$\frac{7}{8}$ & 1	$\frac{7}{8}$ & $1\frac{5}{8}$	$15\frac{1}{2}$	1 00	1 50	2 00
42	$\frac{7}{8}$ & $1\frac{1}{8}$	$\frac{7}{8}$ & $1\frac{3}{4}$	$17\frac{3}{8}$	1 18	1 77	2 36
43	1 & $1\frac{1}{8}$	$1\frac{1}{8}$ & $1\frac{1}{2}$	$17\frac{3}{8}$	1 36	2 04	2 72
44	1 & $1\frac{1}{4}$	$1\frac{5}{8}$ & 2	$19\frac{3}{8}$	1 55	2 33	3 10
45	$\frac{1}{8}$ & $1\frac{1}{4}$	$\frac{13}{16}$ & 2	$19\frac{3}{8}$	1 80	2 70	3 60
46	$\frac{1}{8}$ & $\frac{13}{16}$	$\frac{13}{16}$ & $2\frac{3}{16}$	$21\frac{1}{4}$	2 05	3 08	4 10
47	$\frac{1}{4}$ & $\frac{13}{16}$	2 & $2\frac{3}{16}$	$21\frac{1}{4}$	2 30	3 45	4 60
48	$\frac{1}{4}$ & $\frac{11}{2}$	2 & $2\frac{3}{8}$	$23\frac{1}{4}$	2 65	3 98	5 30
49	$\frac{13}{16}$ & $\frac{11}{2}$	$2\frac{3}{16}$ & $2\frac{3}{8}$	$23\frac{1}{4}$	3 00	4 50	6 00
50	$\frac{13}{16}$ & $\frac{15}{8}$	$2\frac{3}{16}$ & $2\frac{9}{16}$	$25\frac{1}{8}$	3 35	5 03	6 70
51	$\frac{11}{2}$ & $\frac{15}{8}$	$2\frac{3}{8}$ & $2\frac{9}{16}$	$25\frac{1}{8}$	3 80	5 70	7 60
52	$\frac{11}{2}$ & $\frac{13}{4}$	$2\frac{3}{8}$ & $2\frac{3}{4}$	$27\frac{1}{8}$	4 25	6 38	8 50
53	$\frac{15}{8}$ & $\frac{13}{4}$	$2\frac{9}{16}$ & $2\frac{3}{4}$	$27\frac{1}{8}$	4 70	7 05	9 40
54	$\frac{15}{8}$ & 2	$2\frac{9}{16}$ & $3\frac{1}{8}$	$30\frac{7}{8}$	5 90	7 85	11 80
55	$\frac{13}{4}$ & 2	$2\frac{3}{4}$ & $3\frac{1}{8}$	$30\frac{7}{8}$	6 50	9 75	13 00
56	$\frac{13}{4}$ & $2\frac{1}{4}$	$2\frac{3}{4}$ & $3\frac{1}{2}$	$34\frac{5}{8}$	8 20	12 30	16 40
57	2 & $2\frac{1}{4}$	$3\frac{1}{8}$ & $3\frac{1}{2}$	$34\frac{5}{8}$	10 25	15 38	20 50

See page 3 for finish of Wrenches

HEXAGON CAP-SCREW WRENCHES

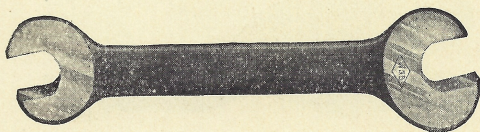


SINGLE HEAD 15° ANGLE

Number.	For Hexagon Head Cap-Screws; Diameter of Screws, Inches.	Opening Finished, Inches.	Extreme Length, Inches.	Thickness of Head, Inches.	Price, Unfinished, Each.	Price, Semi-Finished, Each.	Price, Finished, Each.
700	$\frac{3}{16}$	$\frac{3}{8}$	$2\frac{7}{8}$	$\frac{7}{32}$	\$0.09	\$0.14	\$0.18
701	$\frac{1}{4}$	$\frac{7}{16}$	$3\frac{3}{4}$	$\frac{1}{4}$	.10	.15	.20
702	$\frac{5}{16}$	$\frac{1}{2}$	$3\frac{3}{4}$	$\frac{1}{4}$	.10	.15	.20
701a	$\frac{3}{8}$	$\frac{9}{16}$	$4\frac{3}{4}$	$\frac{9}{32}$	.12	.18	.24
703	$\frac{7}{16}$	$\frac{5}{8}$	$5\frac{5}{8}$	$\frac{3}{16}$	.14	.21	.28
704	$\frac{1}{2}$	$\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{8}$	.17	.26	.34
705	$\frac{9}{16}$	$\frac{13}{16}$	$7\frac{1}{2}$	$\frac{3}{16}$	.20	.30	.40
705a	$\frac{5}{8}$	$\frac{7}{8}$	$7\frac{1}{2}$	$\frac{3}{16}$	.20	.30	.40
706	$\frac{3}{4}$	1	$8\frac{3}{8}$	$\frac{7}{16}$	.26	.39	.52
707	$\frac{7}{8}$	$1\frac{1}{8}$	$9\frac{1}{4}$	$\frac{3}{16}$	.32	.48	.64
708	1	$1\frac{1}{4}$	$11\frac{1}{8}$	$\frac{9}{16}$	.42	.63	.84

See page 3 for finish of Wrenches.

HEXAGON CAP-SCREW WRENCHES.



DOUBLE HEAD 15° ANGLE

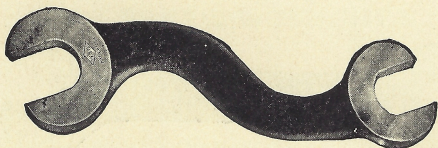
Number.	For Hexagon Head Cap-Screws; Diameter of Screws, Inches.	Openings Finished, Inches.	Extreme Length, Inches.	Thickness of Heads, Inches.	Price, Unfinished, Each.	Price, Semi-Finished, Each.	Price, Finished, Each.
723	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	4	$\frac{7}{32}$ & $\frac{1}{4}$	\$0.13	\$0.20	\$0.26
723a	$\frac{3}{16}$ & $\frac{1}{8}$	$\frac{3}{8}$ & $\frac{1}{2}$	4	$\frac{7}{32}$ & $\frac{1}{4}$	.13	.20	.26
724	$\frac{3}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{1}{2}$	4 $\frac{7}{8}$	$\frac{7}{32}$ & $\frac{3}{32}$	.16	.24	.32
725	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	4 $\frac{7}{8}$	$\frac{1}{4}$ & $\frac{3}{32}$	.18	.27	.36
725a	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{1}{2}$	4 $\frac{7}{8}$	$\frac{1}{4}$ & $\frac{3}{32}$	.18	.27	.36
725b	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{1}{2}$	4 $\frac{7}{8}$	$\frac{1}{4}$ & $\frac{3}{32}$	.18	.27	.36
726	$\frac{1}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	5 $\frac{7}{8}$	$\frac{1}{4}$ & $\frac{1}{16}$	.20	.30	.40
727	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	5 $\frac{7}{8}$	$\frac{1}{4}$ & $\frac{1}{16}$	.22	.33	.44
728	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	6 $\frac{7}{8}$	$\frac{3}{32}$ & $\frac{1}{16}$	.24	.36	.48
729	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	6 $\frac{7}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	.26	.39	.52
730	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{13}{16}$	7 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.28	.42	.56
731	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{3}{4}$ & $\frac{13}{16}$	7 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.30	.45	.60
731a	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	7 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.30	.45	.60
731b	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{3}{4}$ & $\frac{1}{1}$	8 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.30	.45	.60
732	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{1}{1}$	8 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.32	.48	.64
732a	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{1}{1}$	8 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.32	.48	.64
733	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $\frac{1}{1}$	8 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.36	.54	.72
734	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{7}{8}$ & $\frac{1}{1}$	9 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.40	.60	.80
735	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{1}$ & $\frac{1}{1}$	9 $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	.44	.66	.88
736	$\frac{3}{4}$ & $\frac{1}{1}$	$\frac{1}{1}$ & $\frac{1}{1}$	11 $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	.51	.77	1.02
737	$\frac{7}{8}$ & $\frac{1}{1}$	$\frac{1}{1}$ & $\frac{1}{1}$	11 $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	.58	.87	1.16

See page 3 for finish of Wrenches

DOUBLE HEAD "S" WRENCHES

22½° ANGLE

FOR U. S. STANDARD NUTS

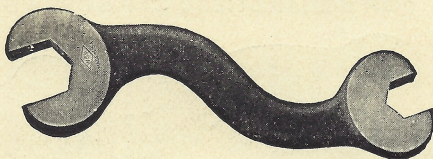


No.	Size Bolts U. S. Standard Nuts	Openings Inches	Extreme Length Inches	Thickness of Heads Inches	Price Unfinished Each	Price Semi-Fin. Each	Price Finished Each
661A	1/8 & 3/16	5/8 & 13/16	4	5/16	\$0 13	\$0 20	\$0 26
661B	1/8 & 1/4	5/8 & 1 1/2	4	5/16	13	20	26
661C	1/8 & 1/4	5/8 & 1 1/2	4	5/16	13	20	26
662A	3/8 & 5/8	1 3/4 & 1 3/4	5	5/8	17	26	34
662B	1/4 & 5/8	1 1/2 & 1 3/4	5	5/8	17	26	34
662C	1/4 & 3/8	1 1/2 & 1 1/8	5	5/8	17	26	34
663A	5/8 & 3/4	1 3/4 & 1 1/2	6 1/4	3/8	22	33	44
663B	1/2 & 3/4	1 3/4 & 1 1/2	6 1/4	3/8	22	33	44
663C	3/8 & 1/2	1 1/8 & 1 1/2	6 1/4	3/8	22	33	44
664A	3/8 & 1/2	1 1/8 & 7/8	7 1/2	7/16	28	42	56
664B	1/2 & 1/2	1 1/8 & 7/8	7 1/2	7/16	28	42	56
664C	1/2 & 9/16	1 1/8 & 31/32	7 1/2	7/16	28	42	56
665A	1/2 & 5/8	7/8 & 31/32	9	1/2	36	54	72
665B	1/2 & 5/8	7/8 & 1 1/8	9	1/2	36	54	72
665C	9/16 & 5/8	31/32 & 1 1/8	9	1/2	36	54	72
666A	5/8 & 3/4	1 1/8 & 1 1/4	10 1/2	9/16	48	72	96
666B	5/8 & 3/4	1 1/8 & 1 1/4	10 1/2	9/16	48	72	96
666C	5/8 & 7/8	1 1/8 & 1 7/8	10 1/2	9/16	48	72	96
667A	3/4 & 7/8	1 1/4 & 1 7/8	12	5/8	72	1 08	1 44
667B	3/4 & 1	1 1/4 & 1 5/8	12	5/8	72	1 08	1 44
667C	7/8 & 1	1 1/8 & 1 5/8	12	5/8	72	1 08	1 44
668A	7/8 & 1 1/8	1 7/8 & 1 13/16	14	3/4	1 10	1 65	2 20
668B	1 & 1 1/8	1 5/8 & 1 13/16	14	3/4	1 10	1 65	2 20
668C	1 & 1 1/4	1 5/8 & 2	14	3/4	1 10	1 65	2 20

DOUBLE HEAD "S" WRENCHES

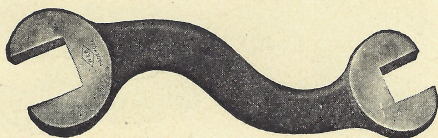
22½° ANGLE

FOR HEXAGON CAP SCREWS



No.	Hexagon Cap Screws Size Inches	Openings Inches	Extreme Length Inches	Thickness of Heads Inches	Price Unfinished Each	Price Semi-Fin. Each	Price Finished Each
671A	⅛ & ⅜	⅝ & ¾	4	⅜	\$0 13	\$0 20	\$0 26
671B	⅛ & ¼	⅝ & ⅞	4	⅜	13	20	26
671C	⅛ & ¼	¾ & ⅞	4	⅜	13	20	26
671D	⅛ & ⅝	¾ & 1½	4	⅜	13	20	26
672A	¼ & ⅝	⅞ & 1½	5	⅝	17	26	34
672B	¼ & ¾	⅞ & 1½	5	⅝	17	26	34
672C	⅝ & ¾	1½ & 1½	5	⅝	17	26	34
672D	⅝ & ⅞	1½ & ⅝	5	⅝	17	26	34
673A	¾ & ⅞	1½ & ⅝	6¼	¾	22	33	44
673B	¾ & 1½	1½ & ¾	6¼	¾	22	33	44
673C	⅞ & 1½	⅝ & ¾	6¼	¾	22	33	44
673D	⅞ & 1½	⅝ & 1½	6¼	¾	22	33	44
674A	½ & ⅞	¾ & 1½	7½	⅞	28	42	56
674B	½ & ⅞	¾ & ⅞	7½	⅞	28	42	56
674C	⅞ & ⅞	1½ & ⅞	7½	⅞	28	42	56
675A	⅞ & ¾	1½ & 1	9	½	36	54	72
675B	⅞ & ¾	⅞ & 1	9	½	36	54	72
675C	⅞ & ⅞	⅞ & 1½	9	½	36	54	72
675D	¾ & ⅞	1 & 1½	9	½	36	54	72
676A	¾ & 1	1 & 1¼	10½	⅞	48	72	96
676B	⅞ & 1	1½ & 1¼	10½	⅞	48	72	96
676C	⅞ & 1½	1½ & 1½	10½	⅞	48	72	96
677A	1 & 1½	1¼ & 1½	12	⅞	72	1 08	1 44
677B	1 & 1¼	1¼ & 1½	12	⅞	72	1 08	1 44
677C	1½ & 1¼	1½ & 1½	12	⅞	72	1 08	1 44

See page 3 for finish of Wrenches

DOUBLE HEAD "S" WRENCHES**22½° ANGLE****FOR SQUARE HEAD CAP SCREWS**

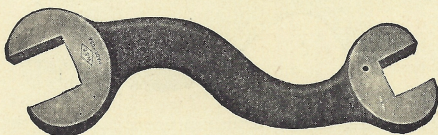
No.	Square Head Cap Screws Size Inches	Openings Inches	Extreme Length Inches	Thickness of Heads Inches	Price Unfinished Each	Price Semi-Fin. Each	Price Finished Each
682A	1/4 & 5/16	3/8 & 7/8	5	5/16	\$0 17	\$0 26	\$0 34
682B	1/4 & 3/8	3/8 & 1 1/2	5	5/16	17	26	34
682C	5/16 & 3/8	7/8 & 1 1/2	5	5/16	17	26	34
682D	5/16 & 7/8	1 1/8 & 1 9/8	5	5/16	17	26	34
683A	3/8 & 7/8	1/2 & 9/8	6 1/4	3/8	22	33	44
683B	3/8 & 1 1/2	1/2 & 5/8	6 1/4	3/8	22	33	44
683C	7/8 & 1 1/2	1 1/8 & 5/8	6 1/4	3/8	22	33	44
683D	7/8 & 1 9/8	1 1/8 & 1 1/8	6 1/4	3/8	22	33	44
684A	1/2 & 9/8	5/8 & 1 1/8	7 1/2	7/8	28	42	56
684B	1/2 & 5/8	5/8 & 3/4	7 1/2	7/8	28	42	56
684C	9/16 & 5/8	1 1/8 & 3/4	7 1/2	7/8	28	42	56
684D	9/16 & 3/4	1 1/8 & 7/8	7 1/2	7/8	28	42	56
685A	5/8 & 3/4	3/4 & 7/8	9	1/2	36	54	72
686A	5/8 & 7/8	3/4 & 1 1/8	10 1/2	9/16	48	72	96
686B	3/4 & 7/8	7/8 & 1 1/8	10 1/2	9/16	48	72	96
686C	3/4 & 1	7/8 & 1 1/4	10 1/2	9/16	48	72	96
687A	7/8 & 1	1 1/8 & 1 1/4	12	5/8	72	1 08	1 44
687B	7/8 & 1 1/8	1 1/8 & 1 3/8	12	5/8	72	1 08	1 44
687C	1 & 1 1/8	1 1/4 & 1 3/8	12	5/8	72	1 08	1 44
688A	1 & 1 1/4	1 1/4 & 1 1/2	14	3/4	1 10	1 65	2 20
688B	1 1/8 & 1 1/4	1 3/8 & 1 1/2	14	3/4	1 10	1 65	2 20

See page 3 for finish of Wrenches

DOUBLE HEAD "S" WRENCHES

22½° ANGLE

FOR SET SCREWS

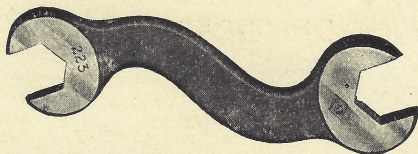


No.	Size Set Screws Inches	Openings Inches	Extreme Length Inches	Thickness of Heads Inches	Price Unfinished Each	Price Semi-Fin. Each	Price Finished Each
691A	¼ & ⅝	¼ & ⅝	4	⅜	\$0 13	\$0 20	\$0 26
691B	¼ & ⅝	¼ & ⅝	4	⅜	13	20	26
691C	⅝ & ⅜	⅝ & ⅜	4	⅜	13	20	26
691D	⅝ & ⅜	⅝ & ⅜	4	⅜	13	20	26
692A	⅜ & ⅞	⅜ & ⅞	5	⅝	17	26	34
692B	⅜ & ⅞	⅜ & ⅞	5	⅝	17	26	34
692C	⅞ & ⅞	⅞ & ⅞	5	⅝	17	26	34
692D	⅞ & ⅞	⅞ & ⅞	5	⅝	17	26	34
693A	½ & ⅞	½ & ⅞	6¼	⅜	22	33	44
693B	½ & ⅞	½ & ⅞	6¼	⅜	22	33	44
693C	⅞ & ⅞	⅞ & ⅞	6¼	⅜	22	33	44
694A	⅞ & ¾	⅞ & ¾	7½	⅞	28	42	56
694B	⅞ & ¾	⅞ & ¾	7½	⅞	28	42	56
694C	⅞ & ¾	⅞ & ¾	7½	⅞	28	42	56
695A	¾ & ⅞	¾ & ⅞	9	½	36	54	72
695B	¾ & 1	¾ & 1	9	½	36	54	72
695C	⅞ & 1	⅞ & 1	9	½	36	54	72
696A	⅞ & 1⅞	⅞ & 1⅞	10½	⅞	48	72	96
696B	1 & 1⅞	1 & 1⅞	10½	⅞	48	72	96
696C	1 & 1¼	1 & 1¼	10½	⅞	48	72	96
697A	1⅞ & 1¼	1⅞ & 1¼	12	⅞	72	1 08	1 44

See page 3 for finish of Wrenches.

DOUBLE HEAD "S" WRENCHES

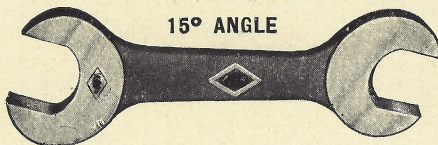
22½° ANGLE



No.	Size of Openings, Inches.	Thickness of Head, Inches.	Length Over All, Inches.	Price Unfinished, Each.	Price Semi-Finished, Each.	Price Finished, Each.
220	⅜ & ⅞	¼	4	\$0 13	\$0 20	\$0 26
221	½ & ⅞	⅝	5	17	26	34
222	¾ & 1⅜	⅜	6	22	33	44
223	⅞ & 1	⅞	7	25	38	50
224	1 & 1⅜	½	8	30	45	60
225	1⅜ & 1¼	⅞	9	36	54	72

CHECK-NUT WRENCHES.**DOUBLE HEAD.**

15° ANGLE



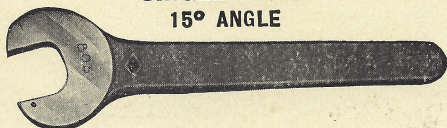
No.	Size Bolts U. S. Standard Nuts, Inches.	Openings, Inches.	Extreme Length, Inches.	Thickness of Heads, Inches.	Price Unfinished, Each.	Price Semi-Finished, Each.	Price Finished, Each.
97½	¾ & ⅞	1¼ & 1⅞	8	½	\$0 43	\$0 65	\$0 86

See page 3 for finish of Wrenches.

CHECK NUT WRENCHES.

SINGLE HEAD.

15° ANGLE



No.	For U. S. Standard Nuts, Size Bolts, In.	Opening Milled, Inches.	Extreme Length, Inches.	Thickness of Head, Inches.	Price Un- finished, Each.	Price Semi- Finished, Each.	Price Finished, Each.
800	$\frac{5}{16}$	$\frac{1}{16}$	$4\frac{1}{4}$	$\frac{1}{16}$	\$0 11	\$0 17	\$0 22
801	$\frac{3}{8}$	$\frac{1}{16}$	$5\frac{1}{8}$	$\frac{3}{16}$	13	20	26
802	$\frac{7}{16}$	$\frac{1}{16}$	$5\frac{7}{8}$	$\frac{7}{16}$	15	23	30
803	$\frac{1}{2}$	$\frac{1}{16}$	$6\frac{5}{8}$	$\frac{1}{2}$	18	27	36
804	$\frac{5}{8}$	$\frac{3}{32}$	$7\frac{3}{8}$	$\frac{3}{8}$	22	33	44
805	$\frac{3}{4}$	$\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{8}$	28	42	56
806	$\frac{7}{8}$	$\frac{1}{4}$	10	$\frac{3}{4}$	36	54	72
807	1	$\frac{1}{8}$	$11\frac{1}{2}$	$\frac{7}{8}$	46	69	92
808	1	$\frac{1}{8}$	$13\frac{1}{4}$	$\frac{1}{2}$	60	90	1 20

CHECK NUT WRENCHES.

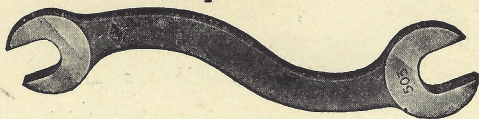
DOUBLE HEAD.

15° ANGLE



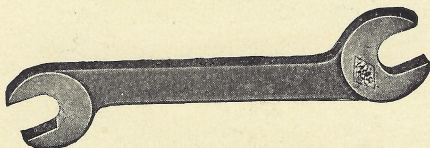
No.	For U. S. Standard Nuts, Size Bolts, In.	Openings Milled, Inches.	Extreme Length, Inches.	Thickness of Heads, Inches.	Price Un- finished, Each.	Price Semi- Finished, Each.	Price Finished, Each.
825	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{16}$ & $\frac{3}{32}$	$6\frac{7}{8}$	$\frac{3}{16}$ & $\frac{7}{32}$	\$0 25	\$0 33	\$0 50
826	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	25	38	50
827	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	25	38	50
828	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{1}{8}$	$8\frac{1}{2}$	$\frac{3}{16}$ & $\frac{9}{32}$	23	50	66
829	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	33	50	66
830	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	33	50	66
831	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{16}$ & $\frac{1}{8}$	$10\frac{3}{8}$	$\frac{9}{32}$ & $\frac{5}{16}$	44	66	88
832	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	44	66	88
833	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	44	66	88
834	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{16}$ & $\frac{1}{8}$	$12\frac{5}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	60	90	1 20
835	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	60	90	1 20
836	$\frac{3}{4}$ & 1	$\frac{1}{16}$ & $\frac{1}{8}$	.....	.....	60	90	1 20

See page 3 for finish of Wrenches

GENERAL PURPOSE WRENCHES.**22½° ANGLE**

No.	Manufacturers' Standard Nuts, Size Bolts, Inches.	Openings Finished, Inches.	Extreme Length, Inches.	Th' kness of Heads, Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
500	3/16 & 1/4	3/8 & 1/2	6 1/4	7/8	\$0 13	\$0 20	\$0 26
501	1/4 & 5/8	1/2 & 3/4	7 1/8	1 1/4	17	25	34
502	5/8 & 3/8	3/4 & 7/8	8 1/4	1 5/8	22	33	44
503	3/8 & 7/8	7/8 & 1	9 1/4	2 3/8	23	42	56
504	7/8 & 1 1/2	1 & 1 1/2	10 3/8	2 7/8	34	51	68

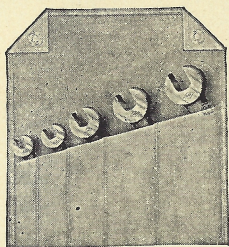
For use in erecting or dismantling plows, carriages, wagons, etc., and for general service where a light and long wrench is desired.

DOUBLE HEAD ANGLE WRENCHES**22½° ANGLE**

No.	Length, Inches.	Th' kn's of Heads, In.	For Standard Hex. Nuts for Bolts.	UNFINISHED, Milled Openings.		Openings for Semi-finished and Finished.	Price Semi-finished, Each.	Price Finished, Each.
				Size of Openings.	Price.			
550	4 1/2	1/4	3/8 & 1/4	3/8 & 7/8	\$0 15	3/8 & 1/2	\$0 23	\$0 30
551	5 3/4	3/8	1/2 & 3/8	1/2 & 1 1/8	20	1/2 & 1 1/8	30	40
552	7	1/2	3/4 & 1/2	3/4 & 1 1/2	25	3/4 & 1 1/2	38	50
553	8	3/4	1 & 5/8	1 & 1 3/8	30	1 & 1 3/8	45	60
554	9 1/4	1	1 1/8 & 3/4	1 1/8 & 1 3/4	38	1 1/8 & 1 3/4	57	76
555	10 1/2	1 1/8	1 3/8 & 1	1 3/8 & 1 1/2	50	1 1/8 & 1 1/2	75	1 00

See page 3 for finish of Wrenches

GENERAL PURPOSE WRENCH SETS



Our General Purpose Wrenches are furnished in sets consisting of one each Nos. 500, 501, 502, 503 and 504, in either Finished, Semi-Finished or Unfinished.

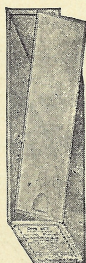
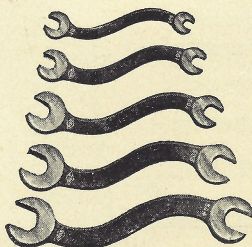
Each set is packed in a canvas bag or roll or in a neat wooden box as shown in cuts.

PRICES IN ROLLS.

Finished, per set	\$2.73
Semi-Finished, per set	2.16
Unfinished, per set	1.59

See page 3 for finish of Wrenches.

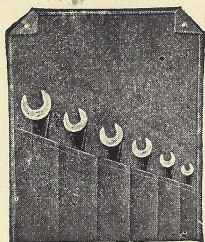
For prices in bulk see page 14.



PRICES IN BOXES.

Finished, per set	\$2.45
Semi-Finished, per set	1.85
Unfinished, per set	1.30

DOUBLE HEAD ANGLE WRENCH SETS



Our Double Head Angle Wrenches are furnished in sets consisting of one each Nos. 550, 551, 552, 553, 554 and 555, either Finished, Semi-Finished or Unfinished.

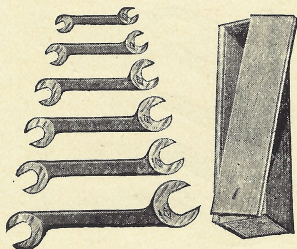
Each set packed in a canvas bag or roll or in a neat wooden box as shown in cuts.

PRICES IN ROLLS.

Finished, per set	\$4.01
Semi-Finished, per set	3.13
Unfinished, per set	2.23

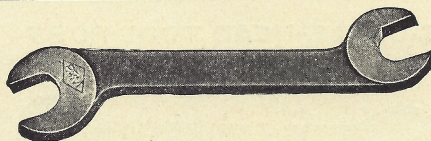
See page 3 for finish of Wrenches.

For prices in bulk see page 14.



PRICES IN BOXES.

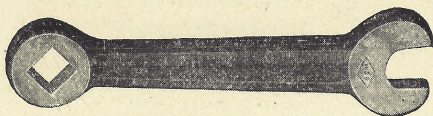
Finished, per set	\$3.71
Semi-Finished, per set	2.83
Unfinished, per set	1.93



DOUBLE HEAD ANGLE WRENCHES 22½° ANGLE

Number.	NUTS FOR U. S. S. BOLTS.		SET SCREWS.		SQ. HEAD CAP SCREWS.		HEX. HEAD CAP SCREWS.		Extreme Length, Inches.	Thickness of Heads, Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
	Bolt Sizes, Inches.	Milled Openings for Nuts, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.					
600	3/16-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-1/6	3/8-7/16	3/8-1/4	3/8-7/16	4 1/2	1/4	\$0.15	\$0.23	\$0.30
601	1/8-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-1/6	3/8-7/16	3/8-1/4	3/8-7/16	4 1/2	1/4	.15	.23	.30
602	1/8-1/4	13/32-1/2	7/16-1/2	7/16-1/2	1/4-3/8	7/16-1/2	7/16-1/2	7/16-1/2	4 1/2	1/4	.15	.23	.30
603	1/8-1/4	13/32-1/2	7/16-1/2	7/16-1/2	1/4-3/8	7/16-1/2	7/16-1/2	7/16-1/2	4 1/2	1/4	.15	.23	.30
604	1/4-1/6	1/2-3/4	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
605	1/4-1/6	1/2-3/4	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
606	1/4-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
607	1/4-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
608	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
609	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
610	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
611	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
612	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
613	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
614	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
615	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
616	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
617	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
618	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
619	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
620	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
621	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
622	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40
623	5/16-3/8	1/2-1 1/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	1/2-5/8	5 3/4	3/8	.20	.30	.40

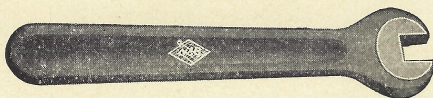
DOUBLE-HEAD TOOL POST WRENCHES



No.	Open End for U. S. Standard Nuts Size Bolts, In.	Closed End for Set Screws Size, Ins.	Extreme Length, Inches.	Price, Unfinished, Each.	Price, Semi- Finished, Each.	Price, Finished, Each.
124	$\frac{3}{8}$	$\frac{9}{16}$	$6\frac{1}{2}$	\$0 25	\$0 38	\$0 50
129	$\frac{1}{2}$	$\frac{7}{16}$	7	30	45	60
131	$\frac{1}{2}$	$\frac{9}{16}$	7	30	45	60
132	$\frac{1}{2}$	$\frac{5}{8}$	7	30	45	60
139	$\frac{5}{8}$	$\frac{5}{8}$	$7\frac{1}{2}$	35	52	70
140	$\frac{5}{8}$	$\frac{3}{4}$	8	40	60	80
143	$\frac{3}{4}$	$\frac{3}{4}$	9	50	75	1 00

Holes broached. Closed end, $22\frac{1}{2}^\circ$ angle. Open end straight.

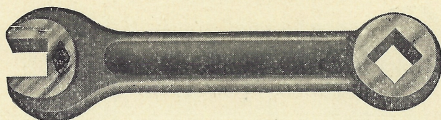
SINGLE-HEAD SET SCREW WRENCHES



No.	For Set Screws, Size, Inches.	Extreme Length, Inches.	Price, Un- finished, Each.	Price, Semi- Finished, Each.	Price, Finished, Each.
280	$\frac{3}{16}$	3	\$0 08	\$0 12	\$0 16
281	$\frac{1}{4}$	$3\frac{5}{8}$	10	15	20
282	$\frac{5}{16}$	$4\frac{1}{2}$	12	18	24
283	$\frac{3}{8}$	$5\frac{3}{8}$	15	23	30
284	$\frac{7}{16}$	$6\frac{1}{4}$	20	30	40
285	$\frac{1}{2}$	7	25	38	50
286	$\frac{9}{16}$	$7\frac{1}{2}$	27	41	54
287	$\frac{5}{8}$	8	30	45	60
288	$\frac{3}{4}$	$9\frac{1}{4}$	35	53	70
289	$\frac{7}{8}$	$10\frac{1}{2}$	42	63	84
290	1	$11\frac{1}{2}$	50	75	1 00
291	$1\frac{1}{8}$	12	60	90	1 20

See page 3 for finish of Wrenches.

DOUBLE HEAD SET SCREW TOOL POST WRENCHES.



No.	Open End for Set Screws, Size, Inches.	Closed End for Set Screws, Size, Inches.	Length Over All, Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
201	$\frac{7}{16}$	$\frac{7}{16}$	$5\frac{1}{2}$	\$0 21	\$0 32	\$0 42
202	$\frac{1}{2}$	$\frac{1}{2}$	6	23	35	46
203	$\frac{9}{16}$	$\frac{1}{2}$	6	23	35	46
204	$\frac{5}{8}$	$\frac{5}{8}$	$6\frac{3}{4}$	30	45	60
205	$\frac{11}{16}$	$\frac{5}{8}$	$6\frac{3}{4}$	30	45	60
206	$\frac{3}{4}$	$\frac{3}{4}$	$7\frac{1}{2}$	35	52	70

Holes broached. Closed end. $22\frac{1}{2}^\circ$ angle. Open end straight.

SINGLE HEAD BOX WRENCHES.

$22\frac{1}{2}^\circ$ ANGLE

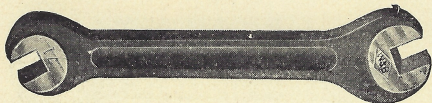


No.	For Set Screws, Size, Inches.	Length Over All, Inches.	Thickness of Head, Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
250	$\frac{1}{4}$	$3\frac{3}{8}$	$\frac{3}{8}$	\$0 10	\$0 15	\$0 20
251	$\frac{5}{16}$	$3\frac{3}{4}$	$\frac{5}{16}$	11	17	22
252	$\frac{3}{8}$	$4\frac{1}{4}$	$\frac{3}{8}$	13	20	26
253	$\frac{7}{16}$	$4\frac{7}{8}$	$\frac{7}{16}$	16	24	32
254	$\frac{1}{2}$	$5\frac{1}{2}$	$\frac{1}{2}$	19	28	38
255	$\frac{9}{16}$	$6\frac{1}{4}$	$\frac{9}{16}$	22	33	44
256	$\frac{5}{8}$	7	$\frac{5}{8}$	26	39	52
257	$\frac{3}{4}$	8	$\frac{3}{4}$	30	45	60
258	$\frac{7}{8}$	9	$\frac{7}{8}$	36	54	72
259	1	10	$\frac{3}{4}$	44	66	88

Holes broached. See page 3 for finish of Wrenches.

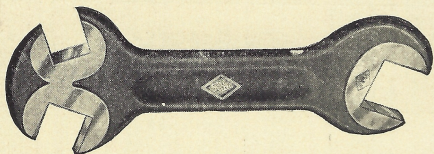
DOUBLE HEAD SET SCREW WRENCHES

15° ANGLE



No.	For Set Screws Size, Inches.	Extreme Length, Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
65	$\frac{3}{16}$ & $\frac{1}{4}$	$3\frac{3}{8}$	\$0 13	\$0 20	\$0 26
66	$\frac{3}{16}$ & $\frac{5}{16}$	$3\frac{3}{8}$	13	20	26
67	$\frac{1}{4}$ & $\frac{5}{16}$	4	15	23	30
68	$\frac{1}{4}$ & $\frac{3}{8}$	4	15	23	30
69	$\frac{5}{16}$ & $\frac{3}{8}$	5	18	27	36
70	$\frac{5}{16}$ & $\frac{7}{16}$	5	18	27	36
71	$\frac{3}{8}$ & $\frac{7}{16}$	$5\frac{7}{8}$	22	33	44
72	$\frac{3}{8}$ & $\frac{1}{2}$	$5\frac{7}{8}$	22	33	44
73	$\frac{7}{16}$ & $\frac{1}{2}$	$6\frac{5}{8}$	27	41	54
74	$\frac{7}{16}$ & $\frac{9}{16}$	$6\frac{5}{8}$	27	41	54
75	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{2}$	33	50	66
76	$\frac{1}{2}$ & $\frac{5}{8}$	$7\frac{1}{2}$	33	50	66
77	$\frac{9}{16}$ & $\frac{5}{8}$	$8\frac{3}{8}$	40	60	80
78	$\frac{9}{16}$ & $\frac{3}{4}$	$8\frac{3}{8}$	40	60	80
79	$\frac{5}{8}$ & $\frac{3}{4}$	10	48	72	96
80	$\frac{5}{8}$ & $\frac{7}{8}$	10	48	72	96
81	$\frac{3}{4}$ & $\frac{7}{8}$	$11\frac{3}{8}$	58	87	1 16
82	$\frac{3}{4}$ & 1	$11\frac{3}{8}$	58	87	1 16

TRIPLE HEAD SET SCREW WRENCHES



For Set Screws Sizes, Inches.	Length over all, Inches.	Thick- ness of Heads, Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$	$5\frac{5}{8}$	$\frac{3}{8}$	\$0 28	\$0 42	\$0 56

See page 3 for finish of Wrenches

CONSTRUCTION AND CAR BUILDERS' WRENCHES.

15° ANGLE

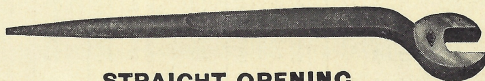


The round tang is for bringing bolt and rivet holes into line. The correct tool for use in the construction of roofs, bridges, cars, etc., and can be inserted into convenient openings when wrench is not in use. always keeping tool in sight and preventing loss.

The openings are 15 degrees angle with the handle which admits turning a hexagon nut completely around, where the swing of the handle is limited to 30 degrees.

No.	For U. S. Standard Nuts, Size Bolts, Inches.	Opening Finished, Inches.	Extreme Length, Inches.	Thickness Head, Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
454	$\frac{5}{8}$	$1\frac{1}{16}$	14	$\frac{9}{16}$	\$0 50	\$0 75	\$1 00
455	$\frac{3}{4}$	$1\frac{1}{4}$	16	$\frac{5}{8}$	65	97	1 30
456	$\frac{7}{8}$	$1\frac{1}{8}$	$17\frac{1}{2}$	$1\frac{1}{16}$	85	1 28	1 70
457	1	$1\frac{5}{8}$	19	$\frac{3}{4}$	1 10	1 65	2 20

CONSTRUCTION WRENCHES. WITH OFFSET.



STRAIGHT OPENING.

No.	For U. S. Standard Nuts, Size Bolts, Inches.	Opening, Inches.	Extreme Length, Inches.	Thickness Head, Inches.	Price Unfinished, Each.	Price Semi-finished, Each.
484	$\frac{5}{8}$	$1\frac{1}{8}$	$14\frac{1}{8}$	$\frac{9}{16}$	\$0 50	\$0 75
485	$\frac{3}{4}$	$1\frac{5}{16}$	16	$\frac{5}{8}$	65	97
486	$\frac{7}{8}$	$1\frac{1}{2}$	$17\frac{1}{2}$	$1\frac{1}{16}$	85	1 28
487	1	$1\frac{1}{4}$	19	$\frac{3}{4}$	1 10	1 65

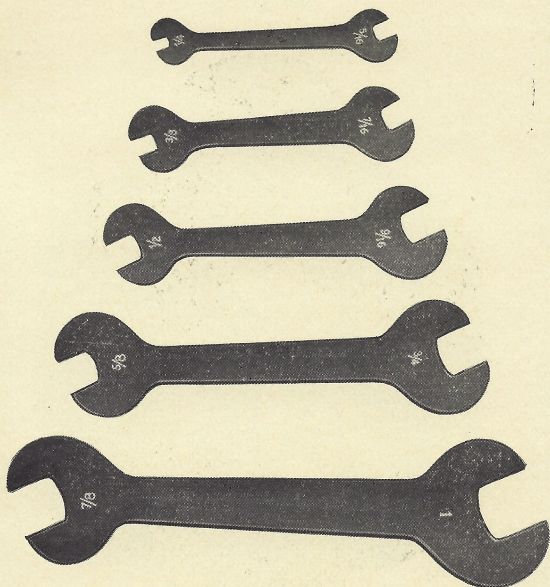
See page 3 for finish of Wrenches

CAR WRENCHES.**DOUBLE HEAD.** **$22\frac{1}{2}^{\circ}$ ANGLE**

No.	For U. S. Standard Nuts, Size Bolts, Inches.	Openings, Inches.	Extreme Length, Inches.	Thickness Heads, Inches.	Price, Unfinished, Each.	Price, Semi- finished, Each.
515	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{32}$ & $\frac{3}{32}$	12	$\frac{7}{16}$ & $\frac{1}{2}$	\$0 50	\$0 75
516	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{16}$ & $1\frac{1}{8}$	19	$\frac{1}{2}$ & $\frac{1}{2}$	85	1 28
517	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{16}$ & $1\frac{5}{16}$	19	$\frac{1}{2}$ & $\frac{1}{2}$	85	1 28
518	$\frac{1}{2}$ & $\frac{7}{8}$	$\frac{1}{16}$ & $1\frac{1}{2}$	20	$\frac{1}{2}$ & $\frac{1}{2}$	92	1 38
519	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{8}$ & $1\frac{5}{16}$	20	$\frac{1}{2}$ & $\frac{1}{2}$	92	1 38
520	$\frac{5}{8}$ & $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{1}{2}$	1 00	1 50
521	$\frac{5}{8}$ & 1	$1\frac{1}{8}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{1}{2}$	1 00	1 50
522	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{5}{16}$ & $1\frac{1}{2}$	21	$\frac{1}{2}$ & $\frac{1}{2}$	1 00	1 50
523	$\frac{3}{4}$ & 1	$1\frac{5}{16}$ & $1\frac{1}{2}$	22	$\frac{1}{2}$ & $\frac{1}{2}$	1 10	1 65
524	$\frac{3}{4}$ & $1\frac{1}{8}$	$1\frac{5}{16}$ & $1\frac{7}{8}$	22	$\frac{1}{2}$ & $\frac{1}{2}$	1 10	1 65
525	$\frac{7}{8}$ & 1	$1\frac{1}{2}$ & $1\frac{1}{2}$	22	$\frac{1}{2}$ & $\frac{1}{2}$	1 10	1 65
526	$\frac{7}{8}$ & $1\frac{1}{8}$	$1\frac{1}{2}$ & $1\frac{7}{8}$	23	$\frac{1}{2}$ & $\frac{1}{2}$	1 23	1 85
527	$\frac{7}{8}$ & $1\frac{1}{4}$	$1\frac{1}{2}$ & $2\frac{1}{8}$	23	$\frac{1}{2}$ & $\frac{9}{16}$	1 23	1 85
528	1 & $1\frac{1}{8}$	$1\frac{1}{2}$ & $1\frac{7}{8}$	23	$\frac{1}{2}$ & $\frac{1}{2}$	1 23	1 85
529	1 & $1\frac{1}{4}$	$1\frac{1}{2}$ & $2\frac{1}{8}$	24	$\frac{1}{2}$ & $\frac{9}{16}$	1 40	2 10
530	$1\frac{1}{8}$ & $1\frac{1}{4}$	$1\frac{7}{8}$ & $2\frac{1}{8}$	24	$\frac{1}{2}$ & $\frac{9}{16}$	1 40	2 10

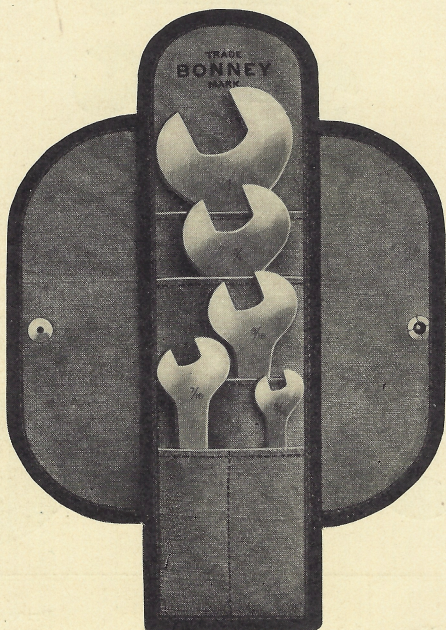
See page 3 for finish of Wrenches.

BONNEY THIN WRENCHES



No.	Openings, Inches.	Length	Price, Each, Semi-finished.
110	$\frac{1}{4}$ & 5-16	$4\frac{3}{8}$	10
120	$\frac{3}{8}$ & 7-16	5	14
130	$\frac{1}{2}$ & 9-16	$6\frac{1}{4}$	18
140	$\frac{5}{8}$ & $\frac{3}{4}$	$7\frac{3}{4}$	25
150	$\frac{7}{8}$ & 1	$9\frac{5}{8}$	33

BONEY THIN WRENCHES IN SETS



SET No. 1. Five Wrenches, one each Nos. 110, 120, 130, 140, 150. Semi-finished, packed in canvas case

Price per Set Complete \$1.25

SET No. 2. Same Wrenches as above, packed in cardboard box.

Price per Set Complete \$1.00

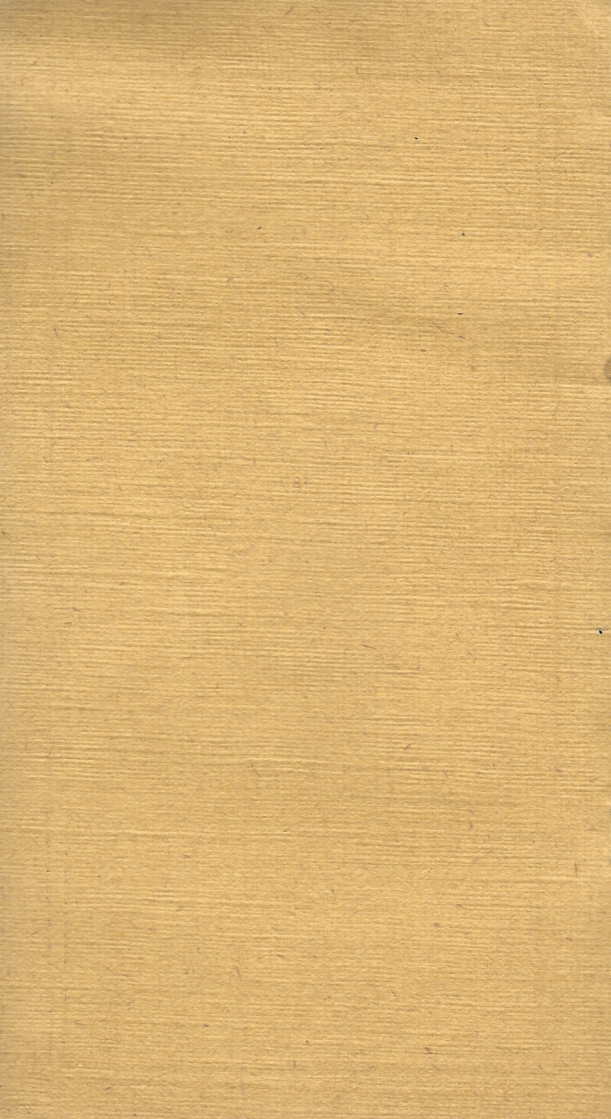
TRADE
BONNEY
MARK

SUPPLEMENT TO
CATALOG NO. 15

TRADE
BONNEY
MARK

BONNEY VISE AND TOOL WORKS
Inc.

ALLENTOWN, PA., U. S. A.
PHILADELPHIA, PA., U. S. A.



BONNEY VISE AND TOOL WORKS

Inc.

ALLENTOWN, PA., U. S. A.

PHILADELPHIA, PA., U. S. A.

Manufacturers of
DROP FORGINGS
VICES AND WRENCHES
of all kinds



Supplement to
CATALOG NO. 15

Showing additional lines of general purpose and double head angle wrenches, for machinists, farmers and textile uses of all kinds.

ESTABLISHED 1876

Cable address **Bonnevise**
Phila.

GENERAL PURPOSE WRENCHES



22½° ANGLE

For Carriage and Automobile Builders and for General Service in which a long, light wrench is required.

Milled regularly to dimensions shown below.

Can be milled to special combinations when required.

No.	Openings Finished Inches	Extreme Length Inches	Thickness Of Heads Inches	Price Un- finished Each	Price Semi- finished Each	Price Finished Each
500	$\frac{3}{8}$ & $\frac{1}{2}$	6¼	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
500A	$\frac{3}{8}$ & $\frac{7}{16}$	6¼	$\frac{7}{32}$	.13	.20	.26
500B	$\frac{13}{32}$ & $\frac{1}{2}$	6¼	$\frac{7}{32}$	.13	.20	.26
500C	$\frac{1}{4}$ & $\frac{5}{16}$	6¼	$\frac{7}{32}$	.13	.20	.26
501	$\frac{1}{2}$ & $\frac{5}{8}$	7⅞	$\frac{1}{4}$	.17	.25	.34
501A	$\frac{1}{2}$ & $\frac{9}{16}$	7⅞	$\frac{1}{4}$	.17	.25	.34
501B	$\frac{13}{32}$ & $\frac{11}{16}$	7⅞	$\frac{1}{4}$	.17	.25	.34
501C	$\frac{13}{32}$ & $\frac{1}{2}$	7⅞	$\frac{1}{4}$	.17	.25	.34
502	$\frac{5}{8}$ & $\frac{3}{4}$	8¼	$\frac{5}{16}$	.22	.33	.44
502A	$\frac{9}{16}$ & $\frac{11}{16}$	8¼	$\frac{5}{16}$	.22	.33	.44
502B	$\frac{5}{8}$ & $\frac{11}{16}$	8¼	$\frac{5}{16}$	.22	.33	.44
502C	$\frac{9}{16}$ & $\frac{13}{32}$	8¼	$\frac{5}{16}$	.22	.33	.44
503	$\frac{3}{4}$ & $\frac{7}{8}$	9¼	$\frac{3}{8}$	.28	.42	.56
503A	$\frac{3}{4}$ & $\frac{13}{16}$	9¼	$\frac{3}{8}$	.28	.42	.56
503B	$\frac{25}{32}$ & $\frac{7}{8}$	9¼	$\frac{3}{8}$	.28	.42	.56
503C	$\frac{11}{16}$ & $\frac{3}{4}$	9¼	$\frac{3}{8}$	.28	.42	.56
504	$\frac{7}{8}$ & 1	10⅜	$\frac{7}{16}$	.34	.51	.68
504A	$\frac{15}{16}$ & 1	10⅜	$\frac{7}{16}$	.34	.51	.68
504B	$\frac{7}{8}$ & $1\frac{1}{16}$	10⅜	$\frac{7}{16}$	.34	.51	.68
505	1 & $1\frac{1}{8}$	12	$\frac{1}{2}$	.44	.66	.88
505A	1 & $1\frac{1}{4}$	12	$\frac{1}{2}$	.44	.66	.88
505B	$1\frac{1}{16}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.44	.66	.88
505C	$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.44	.66	.88

GENERAL PURPOSE WRENCHES IN SETS.

EACH SET PACKED IN A CANVAS ROLL
OR NEAT WOODEN BOX.

SET A.

Contains 5 wrenches, one each of the following:

No.	Manufac- turers' Stan- dard Nuts, Size Bolts, Inches.	Openings Finished Inches.	Extreme Length Inches.	Thickness of Heads Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
500	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
501	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$7\frac{1}{8}$	$\frac{1}{4}$	.17	.25	.34
502	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	.22	.33	.44
503	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	.28	.42	.56
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{8}$ & 1	$10\frac{3}{8}$	$\frac{7}{16}$	.34	.51	.68

PRICES		Packed in Canvas Rolls.	Packed in Wooden Boxes.
Finished.....	Per Set	\$2.73	\$2.45
Semi-Finished.....	Per Set	2.16	1.85
Unfinished.....	Per Set	1.59	1.30

SET B.

Contains 3 Wrenches, one each of the following:

No.	Manufac- turers' Stan- dard Nuts, Size Bolts, Inches.	Openings Finished, Inches.	Extreme Length, Inches.	Thickness of Heads, Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
500	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
502	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	.22	.33	.44
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{8}$ & 1	$10\frac{3}{8}$	$\frac{7}{16}$	.34	.51	.68

PRICES		Packed in Canvas Rolls.	Packed in Wooden Boxes.
Finished.....	Per Set	\$1.83	\$1.54
Semi-Finished.....	Per Set	1.49	1.20
Unfinished.....	Per Set	1.14	.85

For other sets see page 15, Catalog No. 15

GENERAL PURPOSE WRENCHES

IN SETS—CONTINUED

SET C.

Contains 3 Wrenches, one each of the following:

No.	U. S. Standard Nuts, Size Bolts, Inches.	Openings Finished Inches.	Extreme Length, Inches.	Thickness of Heads Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
500B	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{13}{32}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
501B	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{19}{32}$ & $\frac{11}{8}$	$7\frac{1}{8}$	$\frac{3}{4}$	.17	.25	.34
503B	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{25}{32}$ & $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	.28	.42	.56

PRICES		Packed in Canvas Rolls.	Packed in Wooden Boxes.
Finished.....	Per Set	\$1. 61	\$1. 33
Semi-Finished.....	Per Set	1. 32	1. 02
Unfinished.....	Per Set	1. 03	.74

SET D.

Contains 5 Wrenches, for A. L. A. M. Standard Nuts and Cap Screws, one each of the following:

No.	For A. L. A. M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws.	Openings Finished, Inches.	Extreme Length, Inches.	Thickness of Heads Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
500	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
502A	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{13}{16}$	$8\frac{1}{4}$	$\frac{11}{16}$	.22	.33	.44
503	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	.28	.42	.56
504A	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{15}{16}$ & 1	$10\frac{3}{8}$	$\frac{1}{2}$	.34	.51	.68
505C	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.44	.66	.88

PRICES		Packed in Canvas Rolls	Packed in Wooden Boxes.
Finished.....	Per Set	\$3. 27	\$2. 99
Semi-Finished.....	Per Set	2. 57	2. 27
Unfinished.....	Per Set	1. 86	1. 57

GENERAL PURPOSE WRENCHES IN SETS—CONTINUED

SET E.

Contains 6 Wrenches, twelve much used openings, no duplicates as follows:

No.	Openings Finished Inches.	Extreme Length, Inches.	Thickness of Heads Inches.	Price Un- finished, Each.	Price Semi- finished, Each.	Price Finished, Each.
500A	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.26
501A	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{8}$	$\frac{1}{4}$	.17	.25	.34
502B	$\frac{5}{8}$ & $\frac{11}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	.22	.33	.44
503A	$\frac{3}{4}$ & $\frac{13}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	.28	.42	.56
504	$\frac{7}{8}$ & 1	$10\frac{3}{8}$	$\frac{7}{16}$	.34	.51	.68
505C	$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.44	.66	.88

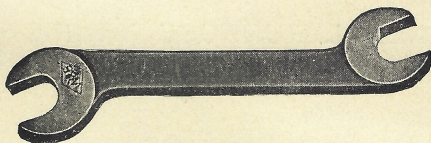
PRICES		Packed in Canvas Rolls.	Packed in Wooden Boxes.
Finished.....	Per Set	\$3.61	\$3.33
Semi-Finished.....	Per Set	2.82	2.52
Unfinished.....	Per Set	2.03	1.74

SET F.

Contains 6 wrenches, twelve openings, no duplicates, as follows:

No.	Openings Finished Inches	Extreme Length Inches	Thickness of Heads Inches	Price Un- finished Each	Price Semi- finished Each	Price Finished Each
500C	$\frac{1}{4}$ & $\frac{5}{16}$	$6\frac{1}{4}$	$\frac{7}{32}$	\$0.13	\$0.20	\$0.36
500A	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{4}$	$\frac{7}{32}$	.13	.20	.26
501C	$\frac{1}{2}$ & $\frac{1}{2}$	$7\frac{1}{8}$	$\frac{1}{4}$	.17	.25	.34
502C	$\frac{5}{8}$ & $\frac{11}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	.22	.33	.44
503C	$\frac{3}{4}$ & $\frac{3}{4}$	$9\frac{1}{4}$	$\frac{3}{8}$	.28	.42	.56
504B	$\frac{7}{8}$ & $1\frac{1}{8}$	$10\frac{3}{8}$	$\frac{7}{16}$	.34	.51	.68

PRICES		Packed in Canvas Rolls	Packed in Wooden Boxes
Finished.....	Per Set	\$2.99	2.70
Semi-Finished.....	Per Set	2.36	2.07
Unfinished.....	Per Set	1.72	1.43



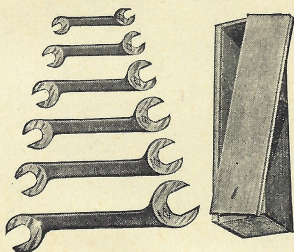
DOUBLE HEAD ANGLE WRENCHES 22½° ANGLE

Number.	NUTS FOR U.S.S. BOLTS.		SET SCREWS.		SQ. HEAD CAP SCREWS.		HEX. HEAD CAP SCREWS.		Extreme Length, Inches.	Thickness of Heads, Inches.	Price Unfinished, Each.	Price Semi-finished, Each.	Price Finished, Each.
	Bolt Sizes, Inches.	Milled Openings for Nuts, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.	Diam. of Screw, Inches.	Milled Openings for Heads, Inches.					
600	3/16-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-5/16	3/8-7/16	3/16-1/4	3/8-7/16	4 1/2	1 1/4	\$0.15	\$0.23	\$0.30
601	1/8-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-3/8	3/8-7/16	3/16-1/4	3/8-7/16	4 1/2	1 1/4	.15	.23	.30
602	1/8-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-3/8	3/8-7/16	3/16-1/4	3/8-7/16	4 1/2	1 1/4	.15	.23	.30
603	1/8-1/4	13/32-1/2	3/8-7/16	3/8-7/16	1/4-3/8	3/8-7/16	3/16-1/4	3/8-7/16	4 1/2	1 1/4	.15	.23	.30
604	1/4-1/8	1 1/2-3/2	1/2-1 1/8	1/2-1 1/8	3/8-7/16	1/2-1 1/8	1/2-3/8	1/2-1 1/8	5 3/4	3 3/4	.20	.30	.40
605	1/4-1/8	1 1/2-3/2	1/2-1 1/8	1/2-1 1/8	3/8-7/16	1/2-1 1/8	1/2-3/8	1/2-1 1/8	5 3/4	3 3/4	.20	.30	.40
606	1/4-3/8	1 1/2-1 1/2	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
607	1/4-3/8	1 1/2-1 1/2	1/2-5/8	1/2-5/8	3/8-7/16	1/2-5/8	1/2-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
608	1/2-1/8	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
609	1/2-1/8	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
610	1/2-3/8	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
611	3/8-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
612	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
613	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
614	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
615	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
616	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
617	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
618	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
619	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
620	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
621	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
622	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40
623	1/2-1/2	1 1/2-1 1/2	1/2-5/8	1/2-5/8	7/16-1/2	1/2-5/8	3/8-7/16	1/2-5/8	5 3/4	3 3/4	.20	.30	.40

DOUBLE HEAD ANGLE WRENCHES

IN SETS

Each set packed in a canvas bag or roll, or in a neat wooden box as shown in cuts.



SET NO. 1.

Contains 6 Wrenches, one each of the following :

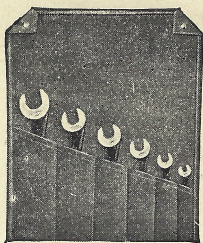
No.	Length, Inches.	Th'kn's of Heads, In.	For Standard Hex. Nuts for Bolts.	UNFINISHED, Milled Openings.		Openings for Semi- finished and Finished.	Price Semi- finished, Each.	Price Finished, Each.
				Size of Openings.	Price.			
550	4 1/2	1/4	3/16 & 1/4	3/8 & 7/16	\$0 15	3/8 & 1/2	\$0 23	\$0 30
551	5 3/4	3/8	1/8 & 3/8	1/2 & 5/8	20	1/2 & 3/4	30	40
552	7	1/2	3/8 & 1/2	1/2 & 1 1/8	25	1/2 & 3/4	38	50
553	8	3/4	1/2 & 3/4	3/4 & 1 1/8	30	3/4 & 1	45	60
554	9 1/4	1	3/4 & 1	7/8 & 1 1/8	38	1 & 1 1/8	57	76
555	10 1/2	1 1/8	1 & 1 1/8	1 1/8 & 1 5/8	50	1 1/8 & 1 5/8	75	1 00

PRICES In Sets		Packed in Canvas Rolls	Packed in Wooden Boxes
Finished	Per Set	\$4.01	\$3.71
Semi-Finished	"	3.13	2.83
Unfinished	"	2.23	1.93

DOUBLE HEAD ANGLE WRENCHES

IN SETS

Each set packed in a canvas bag or roll or in a neat wooden box as shown in cuts.



SET NO. 2

Contains 6 Wrenches, twelve openings, no duplicates, one each of the following :

No.	Openings Finished, Inches	Extreme Length Inches	Thickness of Heads Inches	Price Finished Each	Price Semi- Finished Each	Price Un- finished Each
550A	$\frac{3}{8}$ & $\frac{7}{16}$	4 $\frac{1}{2}$	$\frac{1}{4}$	\$0.30	\$0.23	\$0.15
551A	$\frac{9}{16}$ & $\frac{5}{8}$	5 $\frac{3}{4}$	$\frac{9}{32}$	40	30	20
552A	$\frac{11}{16}$ & $\frac{13}{16}$	7	$\frac{5}{16}$	50	.38	25
553A	$\frac{3}{4}$ & $\frac{15}{16}$	8	$\frac{11}{32}$	.60	.45	.30
554A	$\frac{7}{8}$ & 1	9 $\frac{1}{4}$	$\frac{3}{8}$	76	57	38
555A	1 $\frac{1}{16}$ & 1 $\frac{5}{16}$	10 $\frac{1}{2}$	$\frac{7}{16}$	1 00	75	50

PRICES	Packed in Canvas Rolls	Packed in Wooden Boxes
Finished.....Per Set	\$4.01	\$3.71
Semi-Finished.....Per Set	3.13	2.83
Unfinished.....Per Set	2.23	1.93



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